

Status of the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (currently amended) A system, comprising
a digital section, including
a first driving device having a switch and a logic gate, the first driving device configured to receive a first digital signal and generate a first drive signal therefrom, and
a second driving device having a switch and a logic gate, the second driving device configured to receive a second digital signal and generate a second drive signal therefrom, and
an acceleration system coupled to the first and second driving devices and configured to accelerate the rise and fall times of the first and second drive signals, and
an analog section configured to receive the first and second drive signals and generate first and second respective analog signals therefrom;
wherein rise and fall times of the first and second drive signals are substantially equal.

2. (Original) The system of claim 1, wherein the logic gates in the first and second driving devices are NOR gates.

3. (Original) The system of claim 2, wherein a first input of each of the NOR gates is coupled to a respective one of the switches and a second input of each of the NOR gates is coupled to an output of an opposite one of the NOR gates.

4. (Original) The system of claim 2, wherein the analog device comprises:
 - a first p-type transistor device receiving the first drive signal to generate the first analog signal therefrom; and
 - a second p-type transistor receiving the second drive signal to generate the second analog signal therefrom.
5. (Original) The system of claim 1, wherein the logic gates in the first and second driving devices are NAND gates.
6. (Original) The system of claim 5, wherein a first input of each of the NAND gates is coupled to a respective one of the switches and a second input of each of the NAND gates is coupled to an output of another one of the NAND gates.
7. (Original) The system of claim 5, wherein the analog device comprises:
 - a first n-type transistor device receiving the first drive signal to generate the first analog signal therefrom; and
 - a second n-type transistor device receiving the second drive signal to generate the second analog signal therefrom.
8. (Cancelled)
9. (currently amended) The system of claim 1 ~~claim 8~~, wherein the acceleration system comprises:
 - a first and second inverters coupled in parallel to each other.
10. (Original) The system of claim 9, wherein:
 - the first inverter is coupled at its input to the first driving device and at its output to the second driving device; and
 - the second inverter is coupled at its input to the second driving device and at its output to the first driving device.

11. (Currently Amended) The system of claim 1 ~~claim 8~~, wherein the acceleration system is a latch.

12. (currently amended) A system comprising:

a digital section configured to receive digital signals including a means for generating first and second drive signals having substantially equal rise and fall times therefrom and means for accelerating the rise and fall times of the first and second drive signals; and

an analog section configured to receive the first and second drive signals and generate first and second analog signals therefrom.

13. (Original) The system of claim 12, wherein the means for generating comprises first and second logic devices.

14. (Original) The system of claim 13, wherein the first and second logic devices are NOR gates.

15. (Original) The system of claim 13, wherein the first and second logic devices are NAND gates.

16. (Cancelled)

17. (currently amended) The system of claim 12 ~~claim 16~~, wherein the means for accelerating comprises first and second inverters.

18. (currently amended) The system of claim 12 ~~claim 16~~, wherein the means for accelerating comprises a latch.

- .19. (New) A system, comprising
a digital section, including
a first driving device having a switch and a logic gate, the first driving device configured to receive a first digital signal and generate a first drive signal therefrom,
a second driving device having a switch and a logic gate, the second driving device configured to receive a second digital signal and generate a second drive signal therefrom, wherein a first input of each of the logic gates is coupled to a respective one of the switches and a second input of each of the logic gates is coupled to an output of an opposite one of the logic gates, and
an analog section configured to receive the first and second drive signals and generate first and second respective analog signals therefrom.
20. (New) The system of claim 19, wherein the logic gates in the first and second driving devices are NOR gates.
21. (New) The system of claim 20, wherein the analog device comprises:
a first p-type transistor device receiving the first drive signal to generate the first analog signal therefrom; and
a second p-type transistor receiving the second drive signal to generate the second analog signal therefrom.
22. (New) The system of claim 19, wherein the logic gates in the first and second driving devices are NAND gates.
23. (New) The system of claim 22, wherein the analog device comprises:
a first n-type transistor device receiving the first drive signal to generate the first analog signal therefrom; and
a second n-type transistor device receiving the second drive signal to generate the second analog signal therefrom.

24. (New) The system of claim 19, wherein the digital section further comprises:

an acceleration device coupled to the first and second driving devices and configured to accelerate the rise and fall times of the first and second drive signals.

25. (New) The system of claim 24, wherein the acceleration system comprises:

first and second inverters coupled in parallel to each other.

26. (New) The system of claim 25, wherein:

the first inverter is coupled at its input to the first driving device and at its output to the second driving device; and

the second inverter is coupled at its input to the second driving device and at its output to the first driving device.

27. (New) The system of claim 24, wherein the acceleration device is a latch.